

## CLAIMS

1. A connector assembly comprising:
  - a slide mechanism having an arm with a lock rail and a bayonet slot in the arm;
  - a first connector body having a mounting slot and a channel for releasably receiving the arm of the slide mechanism;
  - a second connector body having a mounting tab constructed to be releasably received in the mounting slot of the first connector body to connect the first connector body and second connector body together, and a lock tab which in assembly cooperates with the lock rail and engages the lock rail to prevent separation of the second connector body and first connector body; and
  - a third connector body having a bayonet constructed to be received in the bayonet slot of the slide mechanism so that the third connector body is releasably connected to the first connector body when the arm of the slide mechanism is disposed in the channel of the first connector body.
2. The connector assembly of claim 1 which also comprises a second channel in the first connector body and a second arm of the slide mechanism constructed to be releasably received in the second channel.
3. The connector assembly of claim 2 wherein the second channel is spaced from and generally parallel to the other channel of the first connector body to define in part a connector slot in which the third connector body is received.

4. The connector assembly of claim 3 wherein each arm has at least one bayonet slot and the third connector body has a pair of opposed walls and a bayonet for each bayonet slot so that the third connector is retained on both walls by the slide mechanism.

5

5. The connector assembly of claim 1 wherein the bayonet slot is inclined to provide a camming surface slidably engageable with the bayonet to cause a corresponding movement of the third connector body relative to the first connector body when the arm of the slide mechanism is slidably moved in the channel.

5

6. The connector assembly of claim 1 which also comprises a receiving slot in the first connector body for releasably receiving the bayonet on the third connector body.

5

7. The connector assembly of claim 6 which also comprises an opening into the bayonet slot wherein the arm of the slide mechanism is slidably movable in the channel to a preliminary position wherein the receiving slot and the opening of the bayonet slot are aligned to receive the bayonet and a final lock position wherein the opening of the bayonet slot is not aligned with the receiving slot.

8. The connector assembly of claim 7 which also comprises a notch and a shoulder on the slide mechanism and a lock arm on the first connector body having a catch engageable with the notch to locate the slide mechanism in its preliminary position,

and constructed to engage the shoulder to releasably maintain the slide mechanism in its  
5 final lock position.

9. The connector assembly of claim 8 which also comprises a lock tab slot  
in the first connector body for receiving the lock tab on the second connector body such  
that when the slide mechanism is in its final lock position the lock rail overlies the lock  
tab to prevent separation of the first connector body and the second connector body.

5

10. The connector assembly of claim 9 which also comprises a second  
lock tab on the second connector body and a second lock tab slot in the first connector  
body for receiving the second lock tab such that when the slide mechanism is in its final  
lock position, the lock rail overlies both lock tabs to prevent separation of the first  
5 connector body and the second connector body.

11. The connector assembly of claim 9 wherein the channel extends  
generally transversely to the lock tab slot so that when the arm is received in the channel,  
the lock rail on the slide mechanism extends generally transversely to the direction of the  
lock tab slot in the first connector body such that when the lock tab is fully received in  
5 the lock tab slot, movement of the second connector body in a direction tending to  
remove the lock tab from the lock tab slot causes the lock tab to engage the lock rail to  
prevent separation of the second connector body from the first connector body.

12. The connector assembly of claim 1 which also comprises a second lock tab on the second connector body and, in assembly, the lock rail overlies both lock tabs to prevent separation of the first connector body and the second connector body.

13. A connector assembly comprising:

a first connector body having a channel and a mounting slot;

a second connector body having a lock tab and a mounting tab constructed to be releasably received in the mounting slot of the first connector body to connect the  
5 first connector body and second connector body together;

a slide mechanism having an arm constructed to be slidably, releasably received in the channel and a lock rail which in assembly cooperates with the lock tab and engages the lock tab to prevent separation of the second connector body and first connector body.

10

14. The connector assembly of claim 13 which also comprises a second channel in the first connector body and a second arm of the slide mechanism constructed to be releasably received in the second channel.

15. The connector assembly of claim 13 which also comprises a notch on the slide mechanism and a lock arm on the first connector body having a catch engageable with the notch to locate the slide mechanism in a preliminary position, and constructed to releasably maintain the slide mechanism in a final lock position.

5

16. The connector assembly of claim 15 which also comprises a lock tab slot in the first connector body for receiving the lock tab on the second connector body such that when the slide mechanism is in its final lock position the lock rail overlies the lock tab to prevent separation of the first connector body and the second connector body.

5

17. The connector assembly of claim 16 which also comprises a second lock tab on the second connector body and a second lock tab slot in the first connector body for receiving the second lock tab such that when the slide mechanism is in its final lock position, the lock rail overlies both lock tabs to prevent separation of the first connector body and the second connector body.

5

18. The connector assembly of claim 16 wherein the channel extends generally transversely to the lock tab slot so that when the arm is received in the channel, the lock rail on the slide mechanism extends generally transversely to the direction of the lock tab slot in the first connector body such that when the lock tab is fully received in the lock tab slot, movement of the second connector body in a direction tending to remove the lock tab from the lock tab slot causes the lock tab to engage the lock rail to prevent separation of the second connector body from the first connector body.

5